



deformable and long rod

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Probabilistic roadmap motion planning for deformable objects

OB Bayazit, JM Lien, NM Amato - Proceedings- IEEE International Conference on Robotics and ... , 2002 - ieeexplore.ieee.org

... Moving a **long rod** through corridors may require the **rod** to bend ... the other objects in the environment are most appropriately modeled as **deformable** objects ...

Cited by 21 - Web Search - cse.wustl.edu - parasol.tamu.edu - csa.com - all 7 versions »

STEADY STATE DEFORMATIONS OF A RIGID PERFECTLY PLASTIC ROD STRIKING A RIGID CAVITY

RC BATRA, PEIR LIN - Int. J. Engng. Sci, 1988 - esm.vt.edu

... Wright [1], in his survey article on **long rod** penetrators, elucidated ... problem into two parts in which either a rigid **rod** penetrates a **deformable** target or a ...

Cited by 5 - [View as HTML](#) - Web Search

Ricochet of a tungsten heavy alloy long-rod projectile from deformable steel plates

W Lee, HJ Lee, H Shin - Journal of Physics D Applied Physics, 2002 - iop.org

... PII: S0022-3727(02)40065-4 Ricochet of a tungsten heavy alloy **long-rod** projectile from **deformable** steel plates Woong Lee 1 , Heon-Joo Lee and Hyunho Shin ...

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... -deformable long rod[[Previously Titled: Regularities of punching thick plates by weakly-deformable ...

PP Lepikhin, SV Zhurakhovskii, KB Ivashchenko - Strength Mater.(Ukraine), 1993 - csa.com

Penetration of a thick plate by a slightly-**deformable long rod**[[Previously Titled:

Regularities of punching thick plates by weakly-**deformable long rods.**]]. ...

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Penetration of a thick plate by a slightly deformable long rod

PP Lepikhin, SV Zhurakhovskii, KB Ivashchenko - Strength of Materials, 1993 - springerlink.com

Page 1. PENETRATION OF A THICK PLATE BY A SLIGHTLY DEFORMABLE LONG ROD PP

Lepikhin, SV Zhurakhovskii, and KB Ivashchenko UDC 539.374 ...

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Simulative Studies of Deformation Behaviour of Long Rod Projectiles Under High and Hyper Velocity ...

AK Sengupta - Trans. Indian Inst. Met., 1983 - csa.com

... has been used for both the target and projectile materials to simulate high velocity impact conditions pertaining to **deformable long rod** projectiles, on ...

Web Search

EXPRESSION ON THE DEFLECTION OF A FLEXIBLE THIN ROD AND IT'S MEASUREMENT

K Miura, T Nishimura - fluid.ippt.gov.pl

... paper, a **deformable** body element which is very **long** in comparison with its width and have a uniform circular cross section, such as a flexible **rod**, flexible ...

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"long element" AND (mesh) AND deformable

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1. [Ricochet of a tungsten heavy alloy long-rod projectile from deformable steel plates](#)
Woong Lee / Heon-Joo Lee / Hyunho Shin, *Journal of Physics D: Applied Physics*, Oct 2002

...tungsten heavy alloy **long-rod** projectile from **deformable** steel plates Woong...heavy alloy (WHA) **long-rod** projectile, impacting...velocities, from a **deformable** RHA plate with finite...the diameter of the **long-rod** projectile, whilst...

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2. [Constitutive modelling of shape memory alloys and upscaling of deformable porous media](#)

Popov, Petar Angelov, 1977- / Popov, Petar Angelov, 1977-, Aug 2005

...incompressible Newtonian fluid and a **deformable** solid. A numerical method is presented...45 2.2. Adaptive **mesh** refinement...185 2.3.3. Fluid **mesh** regeneration...Comparisons of FEM solutions with di^{fferent} **mesh** sizes and time steps...

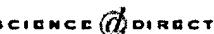
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3. [A computational study of the influence of thermal softening on ballistic penetration in metals](#)

Yadav, S. / Repetto, E.A. / Ravichandran, G. / Ortiz, M., *International Journal of Impact Engineering*, Sep 2001

...penetration of tungsten alloy **long-rod** penetrators into armor steel...improve the solution by adaptive **mesh** refinement and coarsening...numerical implementation of **mesh** adaption can be found elsewhere...to represent contact between **deformable** bodies [8] . Note that **mesh** adaption furnishes a convenient...

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4. [Microsoft Word - program3.doc \[PDF-2MB\]](#)

Oct 2004

1 Conference Program Wednesday, June 27, 8:30-8:45 3 Wednesday, June 27, 8:30-8:45 Introductory Remarks Wednesday, June 27, 8:30-8:45 Pavilion Chair: Sia Nemat-Nasser Wednesday, June 27, 9:00-10:30 Composite Materials: Composites Wednesday,



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- 1. [Static Solution for Real Time Deformable Objects with Fluid Inside](#) [13K]
Nov 2004
...physically based simulation of **deformable** objects, suitable for
real...Physically based simulation of **deformable** objects is a key
challenge...and cross the object. One **mesh** defines one **deformable** face
for the object. Multiple...full 3D **deformable** object. A **long element** can
be compared to a non...
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...Hence, it is common to associate a **deformable** polygonal **mesh** with a
high level **deformable** model that is more controllable...deformation
governs that of the polygonal **mesh**. · Physically-based **Deformable** Models
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- 3. [October 29 - November 3 2001 Hawaii USA](#) [PS-13K]
Feb 2003
...approach to apply LEM - **Long Element** Method, a new method...based
simulation of **deformable** objects, to a general polygonal **mesh**. The LEM
method is...the case between a **deformable** body and a rigid
body...general polygonal **mesh**. We also show our...used to model our
deformable object. L F A L Figure 1: A **Long Element** Consider the **long**...
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Γ 5. [D:\Publications\ISER02\ISER-Book\main-book.dvi](#) [PDF-23K]
Jun 2002
...emphasize on a new **deformable** physical model...research group. 2.1
Long Element Method LEM [5...left to right : A **Long Element** with
neighbors, liver **mesh**, LEM discretization...perpendicular to the thigh
mesh. That gives the...produced by the **deformable** model. (N.B.
a...simulation. With the new **Long Element** Method (LEM) based...
[<http://www.iser02.unisa.it/papers/31.pdf>]
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Γ 6. [University of Texas at](#) [PS-19K]
Xiuzhong Wang / Venkat Devarajan / T AC / T AF / T AB , Mar 2004
...sponding triangle surface **mesh** according to the outer cubic **mesh**.
Further work needs to be done on the tetrahedron **mesh** situation.
References BALANIUK...Dynamic simulation of **deformable** objects using
the **long element** method. In the 10th international...
[<http://virtual.uta.edu/CD/xiuzhong/paper110.ps>]
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Γ 7. [Faithfull Haptic Feedback in Medical Simulators](#) [PDF-23K]
Apr 2004
...emphasize on a new **deformable** physical model...research group. 2.1
Long Element Method LEM [5...left to right : A **Long Element** with
neighbors, liver **mesh**, LEM discretization...perpendicular to the thigh
mesh. That gives the...produced by the **deformable** model. 0 500
1000...simulation. With the new **Long Element** Method (LEM) based...
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Γ 8. [Activity Report 2004, Project-Team E-MOTION](#) [PDF-107K]
Feb 2005
...concave or convex, rigid or **deformable**. The library is
numerically...provides efficient tools for **deformable** object simulation. It
includes...Element Method (FEM) and the **Long Element** Method (LEM)
deformable models for physical simulation...
[<http://www.inria.fr/rapportsactivite/RA2004/e-motion20...>]
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Γ 9. [Simulation Dynamique en Temps-Réel et Interaction 3D de Tissu Biologique: Application aux Simulateurs Médicaux](#)
Sundaraj, Kenneth, Jan 2004
...22 2.2.8 **Long Element** Method (LEM...4 Collision Detection of
Deformable Objects...112 6.2.2 Thigh **Deformable** Model...122 6.3.3 ACL
Deformable Model...
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Γ 10. [Virtual Suturing for Training in Vascular](#) [PDF-598K]
Jun 2005
...analysis 109 4.2.3.3 Modelling approaches
. 110 4.3 **Deformable** modelling in real-time
. 112 4.3.1 Overview...
[<http://www.comp.leeds.ac.uk/research/pubs/theses/holbr...>]
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Γ 11. [Untitled](#) [Word-29K]
Liu Xin , Oct 2005

...Complex Contacts Involving **Deformable** Objects for Haptic and Graphic...complex contacts, modeling, **deformable** objects Introduction Haptic...haptic rendering involving **deformable** objects have a very wide...Boundary Element Method, and **Long Element** Method) can achieve real...
[<http://www.ntu.edu.sg/home5/liux0004/LIU%20XIN's%20MIR...>]
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□ **12. Simulation of Linear Elastic Media with Fluid** [PDF-173K]

Feb 2004

...2 1.1.2 **Deformable** Models for Tissue Simulation...Problem Formulation 8 2.1 **Deformable** Methods in Haptics...41 4.4.1 **Mesh** Generation...74 A.5 3D **Mesh** of Parallel Slices with Tetrahedral...Infra Red Emitting Diode LEM **Long Element** Method MRI Magnetic Resonance...
[<http://www.cim.mcgill.ca/~andrewg/GoslineMAScThesis.pdf...>]
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□ **13. The Virtual Craniofacial Patient Are we there yet** [PDF-38K]

Jul 2003

...finite element (Motoyoshi et al, 1993 Koch et al, 1996), and **long element** (Balaniuk, 2002), approaches. These models are still in development...wireframe model (Sloten et al., 1996 Xia and Ip et al., 2000). **Deformable** models of the skull have been developed to simulate craniofacial...
[http://graphics.usc.edu/cgit/pdf/papers/Mah_Moyers.pdf]
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□ **14. ercim news 43** [PDF-301K]

Dec 2000

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□ **15. LEM An approach for real time physically based soft tissue** [PS-25K]

Ivan F. COSTA / Remis BALANIUK / Murat Cenk Cavusoglu / Frank Tendick / Michael Downes, Feb 2002

...For a survey of **deformable** modeling in computer...1) Figure 2: **Long element** However the force...Elements To simulate a **deformable** object we propose...the objects. A **long element** can be compared...Cartesian meshes, each **mesh** containing long...the grid 1 . The **long element** deforms only in...
[<http://www.ucb.br/fisica/antigo/profs/ivan/icra2001b.p...>]
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...tissue can be considered as a **deformable** body of viscoelastic material...continuum mechanics and recently **long element** method (LEM) which we believe...generally not allowed. 2.3 The **Long Element** Method (LEM) Principle We...represent our object. Fig. 4. A **Long Element**(right) and Mod- eling of...
[<http://www.fi.muni.cz/~xpeterl/FEM/isrr01.pdf>]
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□ **17. Finite Element Method and Soft Tissue Modelling** [PS-74K]

Jun 2005

...finite element procedure: 1. Generation of **mesh** and discretization of the

given domain...geometry approximation error. Density of the **mesh** can be variable and so reflecting the gradient...domain is discretised by finite element **mesh**, decomposition can be viewed as subdivision...
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